

527/1

AGRICULTURE

Paper 1

2 hours



Uganda Certificate Of Lower Secondary Education

S.2 END OF TERM II ASSESSMENT

AGRICULTURE

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES:

- Attempted **three** questions.

Item 1.

Most farmers have predicted the time for planting crop seeds during the wet season. Sharon is a senior two student who planted a sample of 30 seeds but only 17 seeds germinated. She went on to replace those seeds that had not germinated. She made a report about her experiment and she was investigating the following;

Tasks:

- a) Calculate the germinability percentage of the seed lot from which Sharon picked the seeds. (4 scores)

b) Giving a reason stated whether the seeds were suitable for planting or not.
(1score)

c) Describe how this girl can break seed dormancy. (10 scores)

d) What are some of the causes of seed dormancy? (5 scores)

Item 2

In the current situation, many farmers in Uganda use a lot of agricultural chemicals like pesticides, herbicides and fertilizers to ensure good yields. However these chemicals are very dangerous to the soil, man and animals. Farmers cannot grow crops and rear animals without using them. A study done by the ministry of agriculture indicate that the lives of man and animals was at risk. Most farmers use agro-chemicals and Scatter containers around their homes. Some misuse these containers. This situation has caused panic among farmers making some loose hope and abandoned agricultural practices.

Task:

According to the knowledge you have about agriculture safety, what guidelines should these farmers follow while handling agro-chemicals. (20 scores).

Item 3

Farmers in mukono have big pieces of land that is idle and can be used for crop growth. They formed a farmer's group and went to Mukono SACCO for a loan. They wanted to buy tools to use and buy hire more land. They have faced a problem of famine among themselves. Some buy daily food from shops, some of them have failed to look after their homes due to low incomes. This farmers' group sat down and decided to use SACCO loan to invest in tuber crop growing project. These farmers are not sure of what tuber crop to grow for lack of knowledge.

Task:

The Agriculture department has sent you to this village to educate these farmers about tuber crop growing, why should these farmers grow cassava as a tuber crop?

Items 4.

A vegetable farmers decided to grow sukuma wiki. He made a nursery bed near a water source. He broadcast seeds, covered them with soil and watered them. He maintained all the seedlings up to time of transplanting. Transplanting started on a sunny day

Some empty spaces were noted within the crop raws. Plants which survived had many leaves and branches. He later observed dark brown patches on the leaves and stems. At harvest, farm workers picked mature leaves, packed and sealed them in plastic bags. The packed leaves were to be delivered to the market in a week's time.

Task

Write a message to the vegetable farmer advising him on how he should carryout sukuma production profitably.

END